Jeffrey L Privette

List of Publications by Year
in descending order

73 papers	11,337 citations	61984 43 h-index	123424 61 g-index
73 all docs	73 docs citations	73 times ranked	10073 citing authors

#	Article	IF	Citations
1	Sustained Production of Multidecadal Climate Records: Lessons from the NOAA Climate Data Record Program. Bulletin of the American Meteorological Society, 2016, 97, 1573-1581.	3.3	16
2	Scientific Stewardship in the Open Data and Big Data Era Â— Roles and Responsibilities of Stewards and Other Major Product Stakeholders. D-Lib Magazine, 2016, 22, .	0.5	13
3	A Unified Framework for Measuring Stewardship Practices Applied to Digital Environmental Datasets. Data Science Journal, 2015, 13, 231-252.	1.3	31
4	Validation of Land Surface Temperature products derived from the Visible Infrared Imaging Radiometer Suite (VIIRS) using ground-based and heritage satellite measurements. Remote Sensing of Environment, 2014, 154, 19-37.	11.0	122
5	Directional Viewing Effects on Satellite Land Surface Temperature Products Over Sparse Vegetation Canopiesâ€"A Multisensor Analysis. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1464-1468.	3.1	69
6	NPP VIIRS land surface temperature product validation using worldwide observation networks. , 2013, , .		0
7	Status of the Suomi NPP visible/infrared imager radiometer suite's (VIIRS) land environmental data records (EDRs) after early evaluation of on-orbit performance. , 2012, , .		2
8	State of the Climate in 2011. Bulletin of the American Meteorological Society, 2012, 93, S1-S282.	3.3	121
9	Land Surface Temperature product validation using NOAA's surface climate observation networksâ€"Scaling methodology for the Visible Infrared Imager Radiometer Suite (VIIRS). Remote Sensing of Environment, 2012, 124, 282-298.	11.0	101
10	A maturity model for assessing the completeness of climate data records. Eos, 2012, 93, 441-441.	0.1	33
11	U.S. temperature and drought: Recent anomalies and trends. Eos, 2012, 93, 473-474.	0.1	92
12	Validation of GOES-R Satellite Land Surface Temperature Algorithm Using SURFRAD Ground Measurements and Statistical Estimates of Error Properties. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 704-713.	6.3	67
13	Pre-launch evaluation of the NPP VIIRS Land and Cryosphere EDRs to meet NASA's science requirements. , 2011, , .		4
14	Assessing the coupling between surface albedo derived from MODIS and the fraction of diffuse skylight over spatially-characterized landscapes. Remote Sensing of Environment, 2010, 114, 738-760.	11.0	204
15	Assessment of biases in MODIS surface reflectance due to Lambertian approximation. Remote Sensing of Environment, 2010, 114, 2791-2801.	11.0	103
16	The Evolution of U.S. Moderate Resolution Optical Land Remote Sensing from AVHRR to VIIRS. Remote Sensing and Digital Image Processing, 2010, , 781-806.	0.7	10
17	Atmospheric Correction at AERONET Locations: A New Science and Validation Data Set. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2450-2466.	6.3	38
18	Developing Algorithm for Operational GOES-R Land Surface Temperature Product. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 936-951.	6.3	89

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19	The MODIS (Collection V005) BRDF/albedo product: Assessment of spatial representativeness over forested landscapes. Remote Sensing of Environment, 2009, 113, 2476-2498.	11.0	272
20	Modeling and Inversion in Thermal Infrared Remote Sensing over Vegetated Land Surfaces. , 2008, , 245-291.		16
21	Evaluation of Split-Window Land Surface Temperature Algorithms for Generating Climate Data Records. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 179-192.	6.3	107
22	Creating Proxy VIIRS Data From MODIS: Spectral Transformations for Mid- and Thermal-Infrared Bands. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3768-3782.	6.3	10
23	Generating a long-term land data record from the AVHRR and MODIS Instruments. , 2007, , .		95
24	Algorithm development for land surface temperature measurement from GOES-R satellite. Proceedings of SPIE, 2007, , .	0.8	0
25	Large seasonal swings in leaf area of Amazon rainforests. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4820-4823.	7.1	376
26	Operational environmental satellite archives in the 21st Century. Proceedings of SPIE, 2007, , .	0.8	0
27	Near-real time retrievals of land surface temperature within the MODIS Rapid Response System. Remote Sensing of Environment, 2007, 106, 326-336.	11.0	25
28	Validation of global moderate-resolution LAI products: a framework proposed within the CEOS land product validation subgroup. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1804-1817.	6.3	341
29	Evaluation of fraction of absorbed photosynthetically active radiation products for different canopy radiation transfer regimes: Methodology and results using Joint Research Center products derived from SeaWiFS against ground-based estimations. Journal of Geophysical Research, 2006, 111, .	3.3	144
30	MODIS leaf area index products: from validation to algorithm improvement. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1885-1898.	6.3	291
31	Local analysis of MISR surface BRF and albedo over GSFC and mongu AERONET sites. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1707-1718.	6.3	19
32	Development of a daily long term record of NOAA-14 AVHRR land surface temperature over Africa. Remote Sensing of Environment, 2006, 103, 153-164.	11.0	57
33	Modeling the observed angular anisotropy of land surface temperature in a Savanna. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1036-1047.	6.3	62
34	Correcting land surface temperature measurements for directional emissivity over 3D structured vegetation. , 2006, 6298, 310.		4
35	Assessments of multisensor vegetation index dependencies with hyperspectral and tower flux data. , 2006, , .		7
36	Analysis of the NPOESS VIIRS land surface temperature algorithm using MODIS data. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2340-2350.	6.3	67

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37	Time‐series validation of MODIS land biophysical products in a Kalahari woodland, Africa. International Journal of Remote Sensing, 2005, 26, 4381-4398.	2.9	115
38	Southern Africa as a remote sensing test bed: the SAFARI 2000 Special Issue overview. International Journal of Remote Sensing, 2005, 26, 4141-4158.	2.9	9
39	Vegetation structure characteristics and relationships of Kalahari woodlands and savannas. Global Change Biology, 2004, 10, 281-291.	9.5	43
40	A simulation analysis of the detectability of understory burns in miombo woodlands. Remote Sensing of Environment, 2004, 93, 296-310.	11.0	41
41	Directional effects in a daily AVHRR land surface temperature dataset over Africa. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 1941-1954.	6.3	93
42	Validation of Global Land-Cover Products by the Committee on Earth Observing Satellites. , 2004, , 31-40.		4
43	Africa burning: A thematic analysis of the Southern African Regional Science Initiative (SAFARI 2000). Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	204
44	Multiscale analysis and validation of the MODIS LAI productII. Sampling strategy. Remote Sensing of Environment, 2002, 83, 431-441.	11.0	89
45	A framework for the validation of MODIS Land products. Remote Sensing of Environment, 2002, 83, 77-96.	11.0	239
46	First operational BRDF, albedo nadir reflectance products from MODIS. Remote Sensing of Environment, 2002, 83, 135-148.	11.0	2,022
47	Multiscale analysis and validation of the MODIS LAI productI. Uncertainty assessment. Remote Sensing of Environment, 2002, 83, 414-430.	11.0	174
48	Global products of vegetation leaf area and fraction absorbed PAR from year one of MODIS data. Remote Sensing of Environment, 2002, 83, 214-231.	11.0	1,647
49	Early spatial and temporal validation of MODIS LAI product in the Southern Africa Kalahari. Remote Sensing of Environment, 2002, 83, 232-243.	11.0	129
50	The EOS Prototype Validation Exercise (PROVE) at Jornada. Remote Sensing of Environment, 2000, 74, 1-12.	11.0	32
51	Measuring Fractional Cover and Leaf Area Index in Arid Ecosystems. Remote Sensing of Environment, 2000, 74, 45-57.	11.0	224
52	Impact of Tissue, Canopy, and Landscape Factors on the Hyperspectral Reflectance Variability of Arid Ecosystems. Remote Sensing of Environment, 2000, 74, 69-84.	11.0	142
53	Inversion methods for physically‐based models. International Journal of Remote Sensing, 2000, 18, 381-439.	1.0	248
54	Developments in the 'validation' of satellite sensor products for the study of the land surface. International Journal of Remote Sensing, 2000, 21, 3383-3390.	2.9	237

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55	A new method of retrieving surface bidirectional reflectance from ground measurements: Atmospheric sensitivity study. Journal of Geophysical Research, 1999, 104, 6257-6268.	3.3	23
56	The Moderate Resolution Imaging Spectroradiometer (MODIS): land remote sensing for global change research. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1228-1249.	6.3	1,178
57	Estimating vegetation structural effects on carbon uptake using satellite data fusion and inverse modeling. Journal of Geophysical Research, 1998, 103, 28839-28853.	3.3	44
58	Atmospheric correction of visible to middle-infrared EOS-MODIS data over land surfaces: Background, operational algorithm and validation. Journal of Geophysical Research, 1997, 102, 17131-17141.	3.3	480
59	Estimating spectral albedo and nadir reflectance through inversion of simple BRDF models with AVHRR/MODIS-like data. Journal of Geophysical Research, 1997, 102, 29529-29542.	3.3	140
60	Inversion of a physically based bidirectional reflectance model of vegetation. IEEE Transactions on Geoscience and Remote Sensing, 1997, 35, 687-698.	6.3	13
61	Unmixing the directional reflectances of AVHRR sub-pixel landcovers. IEEE Transactions on Geoscience and Remote Sensing, 1997, 35, 868-878.	6.3	48
62	Relations between directional spectral vegetation indices and leaf area and absorbed radiation in Alfalfa. Remote Sensing of Environment, 1997, 61, 162-177.	11.0	73
63	Extracting ecological and biophysical information from AVHRR optical data: An integrated algorithm based on inverse modeling. Journal of Geophysical Research, 1996, 101, 23335-23348.	3.3	47
64	Optimal sampling conditions for estimating grassland parameters via reflectance. IEEE Transactions on Geoscience and Remote Sensing, 1996, 34, 272-284.	6.3	29
65	Inversion of a vegetation reflectance model with NOAA AVHRR data. Remote Sensing of Environment, 1996, 58, 187-200.	11.0	69
66	Optical remote sensing of vegetation: Modeling, caveats, and algorithms. Remote Sensing of Environment, 1995, 51, 169-188.	11.0	230
67	Effects of orbital drift on advanced very high resolution radiometer products: Normalized difference vegetation index and sea surface temperature. Remote Sensing of Environment, 1995, 53, 164-171.	11.0	86
68	Unmixing multiple land-cover type reflectances from coarse spatial resolution satellite data. Remote Sensing of Environment, 1995, 54, 98-112.	11.0	61
69	<title>Fitting remote sensing data with linear bidirectional reflectance models</title>. , 1995, , .		7
70	Inversion of a soil bidirectional reflectance model for use with vegetation reflectance models. Journal of Geophysical Research, 1995, 100, 25497.	3.3	29
71	Invertibility of a 1-D discrete ordinates canopy reflectance model. Remote Sensing of Environment, 1994, 48, 89-105.	11.0	69
72	Modeling the bidirectional reflectance distribution function of mixed finite plant canopies and soil. Journal of Geophysical Research, 1994, 99, 10577.	3.3	10

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73	A new approach for radiometric cross calibration of satellite-borne radiometers. , 0, , .		1